

This Class 530 is considered to be an integral part of Class 260 (see the Class 260 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 260.		209	...Phosphorus or heavy metal containing material, elemental hydrogen, sulfur dioxide, or carbon dioxide used in the process, or product thereof
		210	.Rosin or derivative used as starting material in process, or product thereof (e.g., using gum rosin, wood rosin, solid tall oil rosin, etc.)
200	<b>NATURAL RESINS OR DERIVATIVES (E.G., WOOD OR PINE TAR; CATIVO RESIN DERIVATIVES, ETC.)</b>	211	..Polymerization or product thereof (e.g., dimer rosin, etc.)
201	.Shellac containing starting material used in process, or product thereof (e.g., lac, sticklac, seedlac, flake shellac, bleached shellac, etc.)	212	...Chemical treatment or color modification of polymerized rosin or derivative, or product thereof (e.g., hydrogenation or esterification of polymerized rosin; removal of color bodies from polymerized rosin, etc.)
202	.Cut wood starting material used in process, or product thereof (e.g., using pine stumps, chips, bark, etc., as starting material)	213	..Boron or phosphorus containing material used in the process, or product thereof
203	.Plant sap or fossil starting material used in process, or product thereof (e.g., using copal, coal, amber, dammar, etc., as starting material)	214	..Diels-Alder adducts (e.g., of maleic anhydride, fumaric acid, etc., with conjugated dienes, such as rosin acids, terpenes, etc.)
204	..Pine oleoresin starting material used in process, or product thereof (e.g., using gum turpentine, pine gum, pine resin, etc., as starting material)	215	..Esterification of rosin or derivative via carboxyl group, or product thereof
205	.Recovery of tall oil or derivatives from papermaking waste, purification of tall oil, or separation of components of tall oil; or product thereof (e.g., separation of rosin, fatty acids, sterols, etc.; decolorizing, etc.)	216	...Chemical treatment or color modification of esterified rosin or derivative, or product thereof (e.g., partial saponification of rosin triglycerides; removal of color bodies from rosin esters, etc.)
206	..Organic sulfur or nitrogen containing material used in the process, or product thereof	217	...Oxygen containing ring or halogen containing material used in the esterification, or product thereof (e.g., using alkylene oxides, polysaccharides, alkyl halides, etc.)
207	..Esterification used in the process, or product thereof	218	...Polyhydroxy material used in the esterification, or product thereof (e.g., forming ester gum, etc.)
208	..Inorganic material used in the process, or product thereof (e.g., using sulfuric acid, boric acid, etc.)		

219	..Sulfur, selenium, or tellurium containing material used in the process, or product thereof (e.g., disproportionation of rosin, etc.)	233	..Sulfur, boron, phosphorus, or iodine containing material used in the process, or product thereof
220	...The sulfur, selenium, or tellurium containing material is inorganic	300	<b>PEPTIDES OF 3 TO 100 AMINO ACID RESIDUES</b>
221	..Nitrogen containing material used in the process, or product thereof	301	.Thymopoietin or Lipotropin; related peptides
222	...The nitrogen containing material is inorganic	302	.Endorphin and Enkephalin; related peptides
223	..Hydrogenation or product thereof (e.g., forming dihydro rosin acids; rosiny alcohol or derivatives; etc.)	303	.Insulin; related peptides
224	..Metal containing material used to form salts of rosin acids, or product thereof	304	..Metal complexes, e.g., Zn-insulin, etc.
225	...Alkali metal containing material (i.e., Li, Na, K, Rb or Cs)	305	..Isolation or purification
226	..Heat treatment of rosin or derivative in the absence of nonrosin organic reactants, or product thereof (e.g., forming rosin oil; disproportionated, dehydrogenated, or isomerized rosin; etc.)	306	.Corticotropin (ATCH); related peptides
227	..Metal, halogen, or silicon containing material used in the process, or product thereof (e.g., using clay, zeolites, etc.)	307	.Calcitonin; related peptides
228	..Purification process or product thereof	308	.Glucagon; related peptides
229	...Immiscible solvents used in the process, or product thereof	309	.Secretin or gastrin; related peptides
230	..Tall oil or derivative used as starting material in process, or product thereof (e.g., metal salts of tall oil fatty acids; tall oil pitch, etc.) dehydrogenated, or isomerized rosin; etc.)	310	.Gramicidin or Tyrocidin; related peptides
231	..Nitrogen containing material used in the process, or product thereof	311	.Somatostatin (SRIF); related peptides
232	..Esterification of tall oil acids, or product thereof	312	.Melanotropin (MSH) or eledoisin; related peptides
		313	.Lutenizing hormone releasing factor (LRF); related peptides
		314	.Bradykinin; kallidin; related peptides
		315	.Oxytocin; vasopressin; related peptides
		316	.Angiotensin; related peptides
		317	.Cyclic peptides
		318	..The cyclisation occurring through the 4-amino radical of 2,4-diamino butanoic acid
		319	...Polymyxin; related peptides
		320	..Bacitracin; related peptides
		321	..Containing only normal peptide links in the ring, i.e., homodetic cyclic peptides
		322	.Peptides containing saccharide radicals, e.g., bleomycins, etc.
		323	.Peptides with at least one nonpeptide bond other than a disulfide bond joining two or more sequences of amino acid residues, e.g., homomeric heterodetic peptide other than cyclic disulfide, depsipeptides, etc.

324	.25 or more amino acid residues in defined sequence	357	..Keratin
325	.24 amino acid residues in defined sequence	358	..Nucleoproteins, e.g., chromatin, chromosomal proteins, histones, protamines, salmine, etc.
326	.15 to 23 amino acid residues in defined sequence	359	..Lipoproteins, e.g., egg yolk proteins, cyclomicrons, etc.
327	.11 to 14 amino acid residues in defined sequence	360	..Casein or caseinate
328	.8 to 10 amino acid residues in defined sequence	361	..Separation, purification or synthesis
329	.6 to 7 amino acid residues in defined sequence	362	..Albumin
330	.4 to 5 amino acid residues in defined sequence	363	..Serum albumin, e.g., BSA, HSA, etc.
331	..Tripeptides, e.g., tripeptide thyroliberin (TRH), melanostatin (MIF), etc.	364	...Separation, purification or synthesis
332	..Containing at least one abnormal peptide link, e.g., gamma peptide bonded, etc.	365	..Lactalbumin, e.g., milk source, etc.
333	..Synthesis of peptides	366	...Separation, purification or synthesis
334	..Polymer supported synthesis, e.g., solid phase synthesis, Merrifield synthesis, etc.	367	..Ovalalbumin, e.g., avidin, conalbumins, etc.
335	..Protecting or removing protective groups, e.g., carboxyl group protection, etc.	368	...Separation, purification or synthesis
336	...Of side chain or sulfur containing group	369	..Separation, purification or synthesis
337	...Of amino group	370	..Plant proteins, e.g., derived from legumes, algae or lichens, etc.
338	..Solution phase synthesis	371	..Derived from fungi, e.g., yeasts, mushroom, etc.
339	...Segment condensation, e.g., Ugi condensation, etc.	372	..Derived from grain, e.g., prolamines, etc.
340	...With phosphorus containing material	373	...Zein
341	...With use of carbonimide or imidazole	374	...Gluten or gliadin
342	...Mixed anhydride synthesis	375	...Derived from wheat
343	..By hydrolysis	376	...Derived from corn
344	..Separation or purification	377	..Derived from oil seed, e.g., cotton seed, rapeseed, sunflower, etc.
345	..Chemical aftertreatment, e.g., acylation, methylation, etc.	378	...Derived from soybean
350	<b>PROTEINS, I.E., MORE THAN 100 AMINO ACID RESIDUES</b>	379	..Derived from leafy green plants, e.g., alfalfa pollen, etc.
351	..Lymphokines, e.g., interferons, interlukins, etc.	380	..Blood proteins or globulins, e.g., proteoglycans, platelet factor 4, thyroglobulin, thyroxine, etc.
352	..Phosphoproteins, e.g., phosvitin, vitellogenin, etc.	381	..Blood coagulation factors and fibrin, e.g., thromboplastin, etc.
353	..Scleroproteins, e.g., fibroin, elastin, silk, etc.	382	...Fibrin or fibrin intermediates, e.g., fibrinogen, etc.
354	..Gelatin	383	...Blood coagulation factor VIII, AHF
355	...Separation, purification or synthesis		
356	..Collagen		

- 384 ...Blood coagulation factor II or factor II + VII + IX + X, i.e., prothrombin complex or factor
- 385 ..Hemoglobins or globins
- 386 ..Globulins
- 387.1 ...Immunoglobulin, antibody, or fragment thereof, other than immunoglobulin antibody, or fragment thereof that is conjugated or absorbed
- 387.2 ....Anti-idiotypic
- 387.3 ....Chimeric, mutated, or recombined hybrid (e.g., bifunctional, bispecific, rodent-human chimeric, single chain, rFv, immunoglobulin fusion protein, etc.)
- 387.5 ....Binds oligosaccharide structure
- 387.7 ....Binds expression product of cancer-related gene or fragment thereof (e.g., oncogene, proto-oncogene, etc.)
- 387.9 ....Binds specifically-identified amino acid sequence
- 388.1 ....Monoclonal
- 388.15 .....Human
- 388.2 .....Binds microorganism or normal or mutant component or product thereof (e.g., animal cell, cell-surface antigen, secretory product, etc.)
- 388.21 .....Binds nucleic acid or derivative or component thereof (e.g., DNA, RNA, DNA-RNA hybrid, nucleotide, nucleoside, carcinogen-DNA adduct, etc.)
- 388.22 .....Binds receptor (e.g., transferrin receptor, Fc receptor, dihydropyridine receptor, IL-2 receptor, etc.)
- 388.23 .....Binds lymphokine, cytokine, or other secreted growth regulatory factor, differentiation factor, or intercellular mediator specific for a hematopoietic cell (e.g., interleukin, interferon, erythropoietin, etc.)
- 388.24 .....Binds hormone or other secreted growth regulatory factor, differentiation factor, intercellular mediator, or neurotransmitter (e.g., insulin, human chorionic gonadotropin, intragonadal regulatory protein, Mullerian inhibiting substance, inhibin, epidermal growth factor, nerve growth factor, dopamine, norepinephrine, etc.)
- 388.25 .....Binds plasma protein, serum protein, or fibrin (e.g., clotting factor, fibrinolytic factor, complement factor, immunoglobulin, apolipoprotein, etc.)
- 388.26 .....Binds enzyme
- 388.3 .....Binds virus or component or product thereof (e.g., virus-associated antigen, etc.)
- 388.35 .....Binds retrovirus or component or product thereof (e.g., HIV, LAV, HTLV, etc.)
- 388.4 .....Binds bacterium or similar microorganism or component or product thereof (e.g., Stretococcus, Legionella, Mycoplasma, bacterium-associated antigen, exotoxin, etc.)
- 388.5 .....Binds fungus or plant cell or component or product thereof (e.g., fungus-associated antigen, etc.)
- 388.6 .....Binds parasitic protozoan or metazoan cell or component or product thereof (e.g., Dirofilaria, Eimeria, Coccidia, Trichinella, parasite cell-surface antigen, etc.)
- 388.7 .....Binds hematopoietic cell or component or product thereof (e.g., erythrocyte granulocyte, macrophage, monocyte, platelet, myelogenous leukemia cell, bone marrow stem cell, granulocytic cell-surface antigen, hemoglobin, thrombospondin, glycophorin, etc.)

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| <p>388.73 .....Binds lymphocytic or lymphocytic-like cell or component or product thereof (e.g., B cell, B-lineage bone marrow cell, null cell, natural killer cell, B-lymphoblastoid cell, B-lineage acute lymphoblastic leukemia cell, B-lymphocytic cell-surface antigen, etc.)</p> <p>388.75 .....Binds T-lymphocytic cell or component or product thereof (e.g., T cell, thymocyte, T-lineage bone marrow cell, T-lymphoblastoid cell, T-lineage acute lymphoblastic leukemia cell, T-lymphocytic cell-surface antigen, etc.)</p> <p>388.8 .....Binds cancer cell or component or product thereof (e.g., cell-surface antigen, etc.)</p> <p>388.85 .....Binds antigen characterized by name or molecular weight (e.g., CEA, NCA, CC glycoprotein, melanoma gp 150 antigen, etc.)</p> <p>388.9 .....Binds drug, hapten, hapten--carrier complex, or specifically-identified chemical structure (e.g., theophylline, digoxin, etc.)</p> <p>389.1 ....Polyclonal antibody or immunoglobulin of identified binding specificity</p> <p>389.2 .....Binds hormone, lymphokine, cytokine, or other secreted growth regulatory factor, differentiation factor, intercellular mediator, or neurotransmitter (e.g., insulin, human chorionic gonadotropin, glucagon, cardiodilatin, interleukin, interferon, norepinephrine, epinephrine, acetylcholine, etc.)</p> <p>389.3 .....Binds plasma protein, serum protein, or fibrin (e.g., clotting factor, fibrinolytic factor, complement factor, immunoglobulin, apolipoprotein, etc.)</p> | <p>389.4 .....Binds virus or component or product thereof (e.g., virus-associated antigen, etc.)</p> <p>389.5 .....Binds bacterium or similar microorganism or component or product thereof (e.g., Pseudomonas, Chlamydia, Clostridium, bacterium-associated antigen, etc.)</p> <p>389.6 .....Binds hematopoietic cell or component or product thereof (e.g., erythrocyte, granulocyte, bone marrow cell, lymphocyte, leukemic cell, hematopoietic cell-surface antigen, hemoglobin, etc.)</p> <p>389.7 .....Binds cancer cell or component or product thereof (e.g., cell-surface antigen, etc.)</p> <p>389.8 .....Binds drug, hapten, hapten-carrier complex, or specifically-identified chemical structure (e.g., theophylline, digoxin, etc.)</p> <p>390.1 ....Removing or inactivating virus or bacterium or component or product thereof (e.g., endotoxin, etc.)</p> <p>390.5 ....Removing, dissociating, or preventing the formation of aggregated, denatured, fragmented, or polymerized immunoglobulin or antibody; or preventing or reducing complement fixation or binding; or reducing antigenicity; or removing, inactivating, or inhibiting contaminating plasma proteins (e.g., proteolytic enzymes, etc.)</p> <p>391.1 ...Monoclonal or polyclonal antibody or immunoglobulin or fragment thereof that is conjugated or adsorbed (e.g., adsorbed to a solid support, etc.)</p> <p>391.3 ....Conjugated to a detectable label or radioisotope or radionuclide or heavy metal-containing compound</p> |
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391.5	.....Conjugated via a specifically-identified linking group, chelating group, coordination complex, coupling agent, or conjugation agent	417	...Chromatography or by septum selective as to material, e.g., gel filtration, molecular sieve dialysis, etc.
391.7	....Conjugated to a cytotoxic agent, drug, or other biologically-active substance	418	..Precipitation
391.9	.....Conjugated via a specifically-identified linking group, coupling agent, or conjugation agent	419	...With added material
392	...Alpha globulins, e.g., ceruloplastin, haptoglobins, etc.	420	....Inorganic
393	....Antithrombin III	421	....Polymeric, e.g., polyethylene glycol, etc.
394	...Beta globulins, e.g., transferrin, etc.	422	..Solvent extraction
395	.Glycoprotein, e.g., mucins, proteoglycans, etc.	423	...Oxygenated material
396	..Lectins, e.g., concanavalin, hemagglutinin, etc.	424	....Alcohol
397	..Glycoprotein hormones	425	....Carboxyl containing
398	...Gonadatropins	426	...Hydrocarbon or halogenated hydrocarbon
399	.Hormones, e.g., prolactin, thymosin, growth factors, etc.	427	..Physical treatment
400	.Metal containing, e.g., chromoproteins, ferritin, ferredoxins, etc.	500	<b>LIGNINS OR DERIVATIVES</b>
401	.Cytochromes, e.g., chlorophyll, orgotein, etc.	501	.Aldehyde, ketone or ozone reacted with a lignin or lignin containing substance, or product thereof
402	.Chemical modification or the reaction product thereof, e.g., covalent attachment or coupling, etc.	502	.Compound which includes phenolic hydroxy or oxygen containing hetero ring reacted with a lignin or lignin containing substance, or product thereof
403	..Protein is identified as an antigen, e.g., immunogenic carriers, etc.	503	.Hydrogenation of a lignin or lignin containing substance, or product thereof
404	...Sulfur containing reactant	504	.Carboxylic acid anhydride, or a compound having halogen bonded directly to acyclic carbon by nonionic bonding, reacted with a lignin or lignin containing substance, or product thereof
405	...Nitrogen containing reactant	505	.Compound containing nitrogen attached directly or indirectly to carbon by nonionic bonding reacted with a lignin or lignin containing substance, or product thereof
406	...Oxygen containing reactant	506	.Heavy metal, aluminum, silicon or phosphorus containing
407	..Hydrolysis of protein	507	.Processes utilizing an organic solvent or a compound having alcoholic hydroxy bonded directly to an acyclic carbon, or product thereof
408	..Sulfur containing reactant		
409	..Nitrogen containing reactant		
410	..Oxygen containing reactant		
411	...Oxygen containing is saccharide		
412	.Separation or purification		
413	..Immunological separation or affinity chromatography		
414	..Ultra filtration or osmosis		
415	..Selective absorption, e.g., Ca phosphate sorbents, etc.		
416	...Ion exchange		
		<b><u>CROSS-REFERENCE ART COLLECTIONS</u></b>	
		800	<b>ANTIHYPERTENSIVE PEPTIDES</b>
		801	<b>PEPTIDE SWEETENERS</b>

802	<b>CHROMOGENIC OR LUMINESCENT PEPTIDES</b>	842	.Skin; hair; nails; sebaceous glands; cerumen
806	<b>ANTIGENIC PEPTIDES OR PROTEINS</b>	843	.Digestive system
807	<b>HAPTEN CONJUGATED WITH PEPTIDE OR PROTEIN</b>	844	..Stomach; intestine
808	<b>MATERIALS AND PRODUCTS RELATED TO GENETIC ENGINEERING OR HYBRID OR FUSED CELL TECHNOLOGY, E.G., HYBRIDOMA, MONOCLONAL PRODUCTS, ETC.</b>	845	..Pancreas
809	.Fused cells, e.g., hybridoma, etc.	846	..Liver
810	<b>CARRIER - BOUND OR IMMOBILIZED PEPTIDES OR PROTEINS AND THE PREPARATION THEREOF, E.G., BIOLOGICAL CELL OR CELL FRAGMENT AS CARRIER, ETC.</b>	847	..Bile
811	.Peptides or proteins is immobilized on, or in, an inorganic carrier	848	.Lungs
812	.Peptides or proteins is immobilized on, or in, an organic carrier	849	.Eyes; vessels; umbilical cord
813	..Carrier is a saccharide	850	.Reproductive organs or embryos
814	...Cellulose or derivatives thereof	851	..Placenta; amniotic fluid
815	..Carrier is a synthetic polymer	852	..Sperm
816	...Attached to the carrier via a bridging agent	853	...Ovary; eggs; embryos
817	...Entrapped within the carrier, e.g., gel, hollow fibre, etc.	854	.Glands
820	<b>PROTEINS FROM MICRO-ORGANISMS</b>	855	<b>PROTEINS FROM ANIMALS OTHER THAN MAMMALS OR BIRDS</b>
821	.Separation of nucleic acid	856	.Snakes; venom
822	.Protozoa	857	.Fish; fish eggs; shell fish; crustacea
823	.Lower fungi, e.g., mold, etc.	858	.Insects; venom
824	.Yeasts	859	<b>WASTE, WASTE MATERIAL, REFUSE OR SLUDGE, E.G., EFFLUENTS, FECAL MATTER, ETC.</b>
825	.Bacteria	860	<b>RENIN INHIBITORS</b>
826	.Viruses	861	<b>INVOLVING IGG3, IGG4, IGA, OR IGY</b>
827	<b>PROTEINS FROM MAMMALS OR BIRDS</b>	862	<b>INVOLVING IGE OR IGD</b>
828	.Cancer	863	<b>INVOLVING IGM</b>
829	.Blood	864	.Monoclonal
830	..Plasma; serum	865	..Human
831	...Cohn fractions	866	<b>INVOLVING IMMUNOGLOBULIN OR ANTIBODY FRAGMENT, (E.G., F(AB)'2, FAB', FAB, FV, FC, HEAVY CHAIN, LIGHT CHAIN, ETC.)</b>
832	.Milk; colostrum	867	<b>INVOLVING IMMUNOGLOBULIN OR ANTIBODY PRODUCED VIA RECOMBINANT DNA TECHNOLOGY</b>
833	.Whey; cheese	868	<b>INVOLVING AUTOIMMUNITY, ALLERGY, IMMEDIATE HYPERSENSITIVITY, DELAYED HYPERSENSITIVITY, IMMUNOSUPPRESSION, OR IMMUNOTOLERANCE</b>
834	.Urine; urinary system		
835	..Kidney		
836	.Mucus; mucous glands; bursa; arthral fluid; spinal fluid		
837	.Lymph; lymph-glands; thymus		
838	.Marrow; spleen		
839	.Nerves; brain		
840	.Bones; tendons; teeth; cartilage		
841	.Muscles; heart		

**FOREIGN ART COLLECTIONS**

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

